

IN THE ABSTRACT:

The Abstract as amended below with a replacement Abstract shows added text with underlining and deleted text with ~~striketrough~~.

Please **REPLACE** the Abstract as marked below to show changes. The replacement Abstract is submitted on a separate sheet (37 CFR 1.72).

Gain setting of a receiving amplifier is performed by use of ASE light of a transmitting amplifier, without need of a particular light source ~~for the receiving amplifier gain setting~~. The gain setting ~~method for the receiving amplifier includes the steps of~~ is performed by detecting the necessity of gain setting ~~of the receiving amplifier when the power of the~~ a receiving amplifier is turned on, requesting WDM transmission equipment in ~~the~~ a preceding station to output ASE light; in a ~~the~~ WDM transmission equipment of the preceding station, ~~based on the request for ASE light output,~~ shutting off both passing-through light and added light, and outputting the ASE light corresponding to a predetermined number of wavelengths of signal light; in the receiving amplifier of the WDM transmission equipment in the station of interest, performing the gain setting by use of the ASE light; and on completion of the gain setting, in the WDM transmission equipment of the station of interest, shifting to receive an optical signal, and in the WDM transmission equipment of the preceding station, switching over to optical signal output.